

GCEP 2003
End- Of- Summer Workshop

August 17-20, 2003

A G E N D A

August 18, 2003 - Monday
Morning Session

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| 9:00 – 10:00 | Welcome and GCEP Update | Peter Lunn, Rickey Petty,
& Peter Faletra
Department of Energy

Jeffrey Gaffney
Argonne National Laboratory

Milt Constantin
Oak Ridge Institute for Science & Education |
| 10:30 – 11:00 | <i>“Effects of Past Land Use on Spatial Heterogeneity of
Soil Nutrients in Southern Appalachian Forests”</i> | Jennifer Fraterrigo, GREF Fellow
University of Wisconsin-Madison |
| 11:00 – 11:30 | <i>“Climate Science as Policymaking Tool: Predicting ENSO-related
Agricultural Impacts in Indonesia and Vietnam”</i> | Michael Mastrandrea, GREF Fellow
Stanford University |
| 11:30 – 12:00 | <i>“Microbial Enzyme Activity and Carbon Cycling in Grassland
Soil Aggregates”</i> | Steven Allison, GREF Fellow
Stanford University |

August 18, 2003 - Monday

Afternoon Session

- 1:30 – 2:30 *"Ultraviolet Sunlight at the Earth's Surface: Variability and Global Mean Conditions"*

John Frederick
University of Chicago
- 2:30 – 3:00 *"Big (and Old) Trees: Fire Hoses for a Smoldering Climate"*

Neil Pederson, GREF Fellow
Tree-Ring Laboratory
Lamont-Doherty Earth Observatory
- 3:30 – 4:00 *"Do Differences in Tree Species Affect Forest Carbon Cycling as Much as Differences in Climate?"*

Lara Kueppers, GREF Fellow
University of California at Berkeley
- 4:00 – 4:30 *"Improving Forest Ecosystem Models to Simulate Responses to Global Change"*

Victoria Wittig, GREF Fellow
University of Illinois at Urbana-Champaign
- 4:30 – 5:00 *"Can Microbes Limit Plant Growth Under Elevated CO₂? Evidence Based on Limiting Nutrients"*

Elsa Cleland, GREF Fellow
Stanford University

August 19, 2003 - Tuesday

Morning Session

- 9:00 – 9:15 *"Mycorrhizal Quantification and Hyphal Extraction from Three Different Prairie Sites in Varied Successional Stages at Fermi Lab Illinois"*

Nicole Aragon, SURE Fellow
Washington State University
- 9:15 – 9:30 *"Chemical Processing of a Lake-Land Breeze"*

Anna Beck, SURE Fellow
Denison University

- 9:30 – 9:45 *"Peroxyacetyl Nitrate (PAN) and Black Carbon Measurements"*
Luis Cuadra, SURE Fellow
University of Puerto Rico – Rio Piedras
- 9:45 – 10:00 *"Elevated CO₂ Effects on Soil Carbon Dynamics in a Liquidambar Styraciflua Plantation"*
Erin Hanlon, SURE Fellow
St. John's College
- 10:30 – 10:45 *"The Chicago Lake Breeze"*
Lucas Harris, SURE Fellow
Northern Illinois University
- 10:45 – 11:00 *"Nocturnal Kansas Boundary Layer and Urban Dispersion 2003"*
Erin Hokanson, SURE Fellow
Valparaiso University
- 11:00 – 11:15 *"Use of Filter Based Light Transmission Techniques to Measure Aerosol Light Absorption Properties"*
Daniel Hooper, SURE Fellow
Tulane University
- 11:15 – 11:30 *"The Fate of Agricultural Lime: Implications for Carbon Accounting"*
Allen McBride, SURE Fellow
Swarthmore College
- 11:30 – 11:45 *"Increasing Atmospheric Temperature: Effects on Growth and Acclimation of Four Deciduous Tree Species"*
Nicole Miller, SURE Fellow
Loyola University
- 11:45 – 12:00 *"Observations of the Atmospheric Boundary Layer Above Oklahoma City during the Joint Urban 2003 Field Program"*
Kori Moore, SURE Fellow
Utah State University

August 19, 2003 - Tuesday

Afternoon-Evening Session

- 1:30 – 1:45 *“Soil Microbial VOC Emission Fluxes in Oak Savannah and Temperate Forest Soil Incubations”*
Stephanie Wheeler, SURE Fellow
College of Charleston
- 1:45 – 2:00 *“Survey of Regional Climate Simulations of California and Environs”*
Esther Zeledon, SURE Fellow
Swarthmore College
- 2:00 – 2:15 *“Acclimation of Stem Respiration to Increased Temperatures: Implications of Warming on Tree Survivability”*
Adam Roddy, SURE Fellow
Swarthmore College
- 2:15 – 2:45 *“Tropical Atlantic Climate Change in the Holocene”*
Christa Farmer, GREF Fellow
Columbia University
- 2:45 – 3:15 *“Impacts of Wildfire and Climate Patterns on Vegetation Dynamics of Grasslands in the Southwest”*
Allison Drake, GREF Fellow
University of Arizona
- 3:45 – 5:15 *Discussions - Presentation of Certificates - Final Comments*
Milt Constantin & Jeff Gaffney
- 6:30 – 9:00 WORKING SESSION-Keynote Address S.S. Potomac Club Room

“Global Change Future Issues: Linkages and Feedbacks”
Jeffrey Gaffney
Argonne National Laboratory